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Datasheet for ABIN7556964  
**FUT7 Protein (AA 1-389) (His tag)**

## Overview

Quantity:	1 mg
Target:	FUT7
Protein Characteristics:	AA 1-389
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUT7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Fut7 Protein expressed in mammalian cells.
Sequence:	MPTPCPPACL STPGTHRLLP FPDWKAPSWE SRKEATCNSS SPGPWAEPTV QGYHPTRRRLR AWGGLAGGAT FMVIWFFWLW GSAPGSAPVP QSTLTILWIH WPFTNRPEL PGDTCTRYGM ASCRLSANRS LLASADAVVF HHRELQTRQS LLPLDQRPHG QPWWASMES PSNTHGLHRF RGIFNWVLSY RRDSDFVPY GRLEPLSGPT SPLPAKSRMA AWWISNFQER QQRAKLYRQL APHLQVDVFG RASGRPLCAN CLLPTLARYR FYLAFENSQH RDYITEKFWR NALAAGAVPV ALGPPRATYE AFVPPDAFVH VDDFSSAREL AVFLVSMNES RYRGFFAWRD RLRVRLLDGW RERFCTICAR YPYLPRSQVY EDLESWFQA <b>Sequence without tag. The proposed Purification- Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

FUT7

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### Alternative Name:

Fut7 ([FUT7 Products](#))

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### Background:

Alpha-(1,3)-fucosyltransferase 7 (EC 2.4.1.-) (Fucosyltransferase 7) (Fucosyltransferase VII) (Fuc-TVII) (FucT-VII) (Galactoside 3-L-fucosyltransferase),FUNCTION: Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the N-acetyl glucosamine (GlcNAc) of a distal alpha2,3 sialylated lactosamine unit of a glycoprotein or a glycolipid-linked sialopolylectosamines chain through an alpha-1,3 glycosidic linkage and participates in the final fucosylation step in the biosynthesis of the sialyl Lewis X (sLe(x)), a carbohydrate involved in cell and matrix adhesion during leukocyte trafficking and fertilization (PubMed:8752218, PubMed:8626519, PubMed:15843584, PubMed:10882744, PubMed:11535629, PubMed:12359718, PubMed:11485743). In vitro, also synthesizes sialyl-dimeric-Lex structures, from VIM-2 structures and both di-fucosylated and trifucosylated structures from mono-fucosylated precursors (By similarity). However does not catalyze alpha 1-3 fucosylation when an internal alpha 1-3 fucosylation is present in polylactosamine chain and the fucosylation rate of the internal GlcNAc residues is reduced once fucose has been added to the distal GlcNAc (By

## Target Details

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similarity). Also catalyzes the transfer of a fucose from GDP-beta-fucose to the 6-sulfated a(2,3)sialylated substrate to produce 6-sulfo sLex mediating significant L-selectin-dependent cell adhesion (PubMed:8752218, PubMed:10894166). Through sialyl-Lewis(x) biosynthesis, can control SELE- and SELP-mediated cell adhesion with leukocytes and allows leukocytes tethering and rolling along the endothelial tissue thereby enabling the leukocytes to accumulate at a site of inflammation (PubMed:15843584, PubMed:8752218, PubMed:10882744, PubMed:11535629). May enhance embryo implantation through sialyl Lewis X (sLeX)-mediated adhesion of embryo cells to endometrium (By similarity). May affect insulin signaling by up-regulating the phosphorylation and expression of some signaling molecules involved in the insulin-signaling pathway through SLe(x) which is present on the glycans of the INSRR alpha subunit (By similarity). {ECO:0000250|UniProtKB:Q11130, ECO:0000269|PubMed:10882744, ECO:0000269|PubMed:10894166, ECO:0000269|PubMed:11535629, ECO:0000269|PubMed:12359718, ECO:0000269|PubMed:15843584, ECO:0000269|PubMed:8626519, ECO:0000269|PubMed:8752218}.

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Molecular Weight: 44.5 kDa

UniProt: [Q11131](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months